THRU:	Director, PIC Chief, TISD	tric		29 February	1960
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1. During the month of November 1758 sev	eral discussion
were held concerning the requirement for a precisi	ion microscope
or enlarger generated by a program which was to n	nake use of
high-resolution 70mm negative material. These f	
involved	
	Cartain

basic requirements for this equipment were established during these preliminary and informal meetings:

- a. That a fixed ratio of approximately 20 diameters was optimum to exploit the scale and resolution capabilities of the original material.
- b. That the equipment be of the vertical design for ease in operation.
- c. That the specific capability of the negative would not be less than 150 lines per millimeter.
- d. That the instrument would accept film or glass plates in the image plane.
- e. That the lens axis would be perpendicular to the image plane to within two minutes of arc.
- f. That the mechanics of transporting the film from supply to take up side would introduce no scratches nor abrasions.
- g. That a method of static and dust removal from the negative material would be incorporated in the film transport mechanism.
- h. That the possibility of using a liquid film gate be completely explored.

Declass Review by NIMA / DoD

STATINTL	during December 1958 at the of the
STATINTL	This meeting was attended by
STATINTL	
	At this meeting the basic requirements and broad perimeters,
	as indicated in paragraph 1 of this memo, were discussed.
STATINTL	The aforementionedrepresentatives offered
_	to submit a proposal for consideration within 30 days. During
STATINTL	March of 1959 Cmdr
STATINTL	as submitted. During July 1959 the undersigned again visited
STATINTL	the to discuss further details of the enlarger.
	During November of 1959, the undersigned, along with
STATINTL	of the photographic laboratory, spend ten days at the STATINTL
STAT	plant in training on the assembly, calibration, and operation of the first production model. During the months
	of January and February 1960, three 20X precision enlargers
	were delivered to PIC and after installing the required venting
	and exhaust system, the three enlargers were installed in the
	laboratory. As of this date, one unit has been completely tested and calibrated and is ready for operation and during the next
	several days, the remaining two units will also be tested and
	calibrated.
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	3. It is the purpose of this memorandum to give only
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